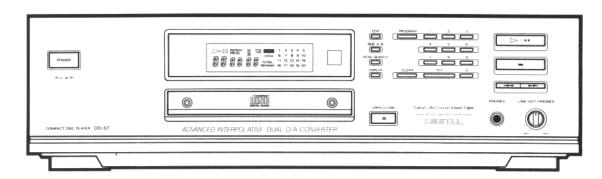
AKAI SERVICE MANUAL





COMPACT DISC PLAYER

MODEL CD-57

SPECIFICATIONS

Pick-up system				
Sampling frequency				
	18 bit, 8 times over sampling			
	Interpolative one bit dual	A TRITER		
Error correction system	Cross interleave reed solomon	RTV CENTER		
Number of channels				
Frequency response	2 Hz to 20 kHz \pm 0.5 dB			
Dynamic range		www.rtvcenter.com		
S/N ratio		repairtips, servicemanuals		
Total harmonic distortion	0.0028 % (1 kHz)	forum, chassispictures		
Wow & flutter	Less than measurable limits	Strange with the strange of the stra		
Output level / Impedance				
Analog output (Fixed)	2 V / 330 ohms			
(Variable)	2 V / 330 ohms			
Digital output (Coaxial)				
(Optical)				
Headphone output	32 mW / 32 ohms			
	220 V-230 V, 50 Hz for Europe 6	except UK		
·	240 V, 50 Hz for UK and Austral			
Dimensions				
Weight				
Standard accessories				
Connection cord				
Remote control unit (RC-C57)				
Batteries for the remote control				
Operator's manual	X1			

^{*}For improvement purposes, specifications and design are subject to change without notice.

III.REPLACEMENT OF PRINCIPAL COMPONENT

When removing the motors (spindle motor, loading motor, sled motor) or pick up block for replacement, be sure to remove the mecha block and disc clamper first.

PRECAUTIONS:

To prevent damage to the LD (laser diode) during removal of the mecha block, please follow the following precautions:

- When removing the MAIN PCB's P2 or P3 connectors, first short the short points on the pick up block's PCB with solder as shown Fig. 3-1.
- When replacing the pick up block with a new one, or when installing the mecha block, first install the P2 and P3 connectors and then remove the solder from the short points to open them.

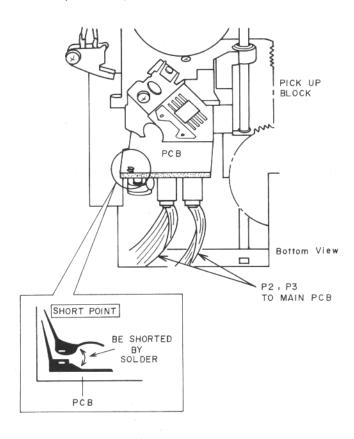


Fig 3-1

3-1.HOW TO REMOVE THE MECHA BLOCK

- 1) Remove the mecha block's retaining screws (A).
- 2) Turn the mecha block over and short the pick up block's short points with solder. (Refer to the precautions.)
- 3) Remove the P2, P3, P5 and P6 connectors on the MAIN PCB.

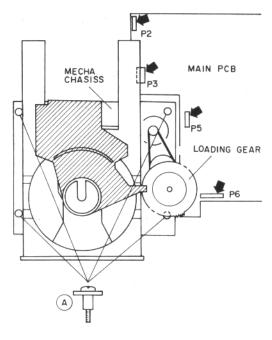


Fig 3-2

3-2.HOW TO REMOVE THE DISC CLAM-PER

- Move the disc drawer forward by turning the loading gear counterclockwise.
- 2) Remove the disc clamper spring [®].
- Lift the disc clamper up slightly and move it to the left to remove it.

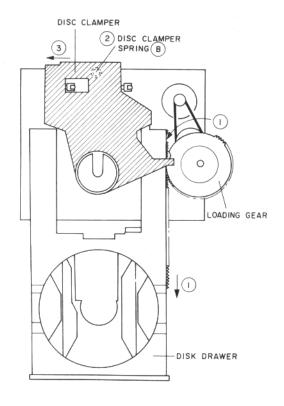


Fig 3-3

3-3.HOW TO REMOVE THE SPINDLE MO-TOR

- Move the pick up block in the direction of the arrow by turning the sled motor counterclockwise.
- 2) Remove the spindle motor retaining screws ©.
- 3) Move the spindle motor in the direction of the arrow and remove it.

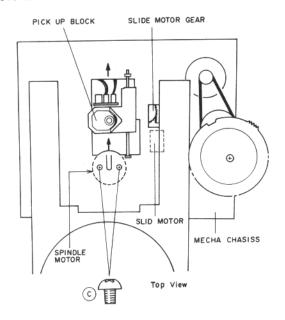


Fig 3-4

3-4.HOW TO REMOVE THE LOADING MO-TOR

- 1) Remove the loading belt.
- 2) Turn the mecha block over.
- Open the loading motor's 3 retaining hooks

 and remove the motor.

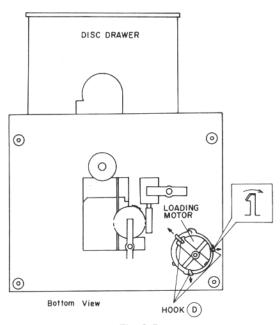


Fig 3-5

3-5.HOW TO REMOVE THE SLED MOTOR

- 1) Turn the mecha block over.
- 2) Lift up the left side of the sled motor's retaining hooks © and turn the sled motor counter clockwise.
- 3) Remove the sled motor.

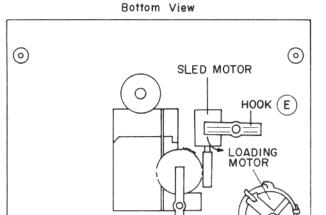


Fig 3-6

3-6.HOW TO REMOVE THE PICK UP BLOCK

- 1) While moving the stopper © to the right, press the top part of the pick up sled shaft to extract it.
- 2) Remove the pick up block.

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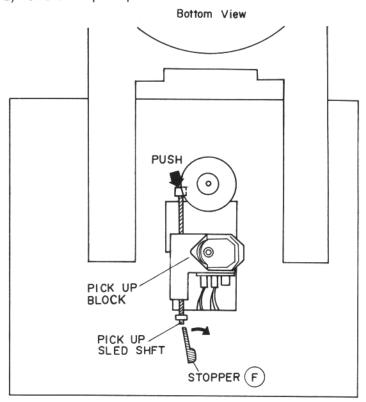


Fig 3-7

IV. ELECTRICAL ADJUSTMENT

[ABOUT THE TEST MODE]

- *This TEST mode is used for the adjustment or check.
- *How to set into the TEST mode.

 Turn the power on, while pressing the >/III, = and >>> buttons on the front panel.
- *How to change the TEST mode number.

 Press the
 button, then advance a TEST mode number, when TEST mode number is return to initial TEST mode number, press
 button.

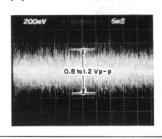
1. TEST DISC 2. MODE or TEST mode 3. TEST POINT and ADJUSTMENT parts. 4. (*) REMARK, (*) RESULT

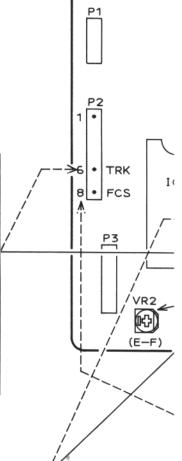
ADJ.part

Test point

3 TRACKING SERVO GAIN

- 1.Test disc 5A (AT-751330)
- 2.PLAY
- 3.Pin (6) (TRK) of connector P2 / VR 3
- 4. Connect an oscilloscope to pin (6) (TRK) of connector P2.
 - *0.8 to 1.2 Vp-p.





*TEST mode condition and DISPLAY

TEST MODE	DISPLAY	
1	TRACK MIN SEC	 Indicated that unit is set into the TEST mode.
2	TRACK MIN SEC 12	 Indicated that the end of FO- CUS SEARCH.
3	TRACK MIN SEC 123	 Set into the CLV-S mode. Tracking servo gain is set to same as "JUMP" mode.
4	TRACK MIN SEC 1234	Tracking servo is on.
5	TRACK MIN SEC 12345	 Unit in to the nomal play mode except anti shock is "OFF". After this, track NO. and time counter become normal indica- tion
6	TRACK MIN SEC 12345	 Anti shock is "ON" and unit into nomal condition. If press the button again, unit will enter the nomal "power ON" mode.

5 FOCUS OFF-SET

- 1.Test disc 5A (AT-751330)
- 2.Test mode 2 and 1
- 3.TP 4 (FE) / VR 1
- 4.•Connect a digital DC voltmeter to (FE) and check voltage A in the mode 2, then press STOP button adjust voltage B so that the readin the digital DC voltmeter is same voltage A.
 - * A=B

